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Halogen-free, mud resistant instrumentation cable RFOU(c) 250V, S2/S6

Flame retardant halogen-free instrumentation cable. Mud resistant

RFOU(c) 250V

EPR/EPR/TCWB/EVA

NEK 606 CodeS2/S6

Operating temperature	**: 90°C**
Operating Voltage	**: 250V**

Standards applied

IEC 60092-376 (2003-05)	- Design
IEC 60228 class 2	- Conductor
IEC 60092-351	- Insulation
IEC 60092-359	- Sheath
IEC 60332-1	- Flame Retardant
IEC 60332-3-22	- Flame Retardant
IEC 600754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

Application

Fixed installation for instrumentation, communication, Control and alarm systems in both EX- and safe areas. Meets the mud resistant requirements in NEK 606.

Construction

	Code Letter	
Conductor		Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
Insulation	**R**	EP-rubber, IEC 60092-351 (EPR)
Pair / Triple / Quad twisting		Color coded cores twisted together and wrapped with polyester tape. Pairs/Triples are laid up collectively and screened by copper backed polyester tape with tinned copper drain wire. Pairs/triples are identified by numbers printed directly on the insulated conductors.
Inner covering	**F**	Flame retardant and halogen-free thermoset compound
Tape over inner covering		PET tape
Armour/screen	**O**	Tinned annealed copper wire braid
Tape over armour/screen		PET tape
Outer sheath	**U**	Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-359)
Marking text		E.g. "meter" "år" DRAKA NORSK KABEL RFOU(c) 250V S2/S6 8 PAIR 0,75 mm2 IEC 60092-376 IEC 60332-3-22 ETL Classified No. 3067229
Outer sheath colour		Grey or Blue

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Core identification instrumentation cables

Pair	Black - Light Blue
Triple	Black - Light Blue - Brown
Quad	Black - Light Blue - Brown - Grey

Range and dimensions

Number of elements	No of cores in element	Cross section core, mm²	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Diameter Braid Wire, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
2	2	0.75	1.1	0.6	1.1	10 ± 0.8	0.2	1.2	13 ± 0.8	275	84
2	2	0.75	1.1	0.6	1.1	10 ± 0.8	0.2	1.2	13 ± 0.8	275	84
4	2	0.75	1.1	0.6	1.1	11.5 ± 0.8	0.3	1.3	15 ± 0.8	390	143
4	2	0.75	1.1	0.6	1.1	11.5 ± 0.8	0.3	1.3	15 ± 0.8	390	144
8	2	0.75	1.1	0.6	1.1	15.5 ± 0.8	0.3	1.4	19.5 ± 0.8	630	232
8	2	0.75	1.1	0.6	1.1	15.5 ± 0.8	0.3	1.4	19.5 ± 0.8	630	232
12	2	0.75	1.1	0.6	1.3	18 ± 0.8	0.3	1.5	22 ± 1	800	304
12	2	0.75	1.1	0.6	1.3	18 ± 0.8	0.3	1.5	22 ± 1	800	304
16	2	0.75	1.1	0.6	1.4	19.5 ± 0.8	0.3	1.6	23.5 ± 1	970	376
16	2	0.75	1.1	0.6	1.4	19.5 ± 0.8	0.3	1.6	23.5 ± 1	970	376
19	2	0.75	1.1	0.6	1.4	20.5 ± 1	0.3	1.7	25 ± 1	1110	443
24	2	0.75	1.1	0.6	1.6	24 ± 1	0.3	1.8	28.5 ± 1	1370	537
24	2	0.75	1.1	0.6	1.6	24 ± 1	0.3	1.8	28.5 ± 1	1370	537
2	3	0.75	1.1	0.6	1.1	11 ± 0.8	0.3	1.3	14.5 ± 0.8	360	130
2	3	0.75	1.1	0.6	1.1	11 ± 0.8	0.3	1.3	14.5 ± 0.8	360	130
4	3	0.75	1.1	0.6	1.1	12.5 ± 0.8	0.3	1.3	16.5 ± 0.8	480	188
4	3	0.75	1.1	0.6	1.1	12.5 ± 0.8	0.3	1.3	16.5 ± 0.8	480	188
8	3	0.75	1.1	0.6	1.1	17 ± 0.8	0.3	1.5	21 ± 1	780	305
8	3	0.75	1.1	0.6	1.1	17 ± 0.8	0.3	1.5	21 ± 1	780	305
12	3	0.75	1.1	0.6	1.3	20 ± 1	0.3	1.6	24 ± 1	1010	406
16	3	0.75	1.1	0.6	1.4	21.5 ± 1	0.3	1.7	26 ± 1	1250	515
24	3	0.75	1.1	0.6	1.8	27 ± 1	0.3	2	32 ± 1.5	1830	732
24	3	0.75	1.1	0.6	1.8	27 ± 1	0.3	2	32 ± 1.5	1830	732
2	2	1.5	1.6	0.7	1.1	12 ± 0.8	0.3	1.3	15.5 ± 0.8	410	162
2	2	1.5	1.6	0.7	1.1	12 ± 0.8	0.3	1.3	15.5 ± 0.8	410	162
4	2	1.5	1.6	0.7	1.1	14 ± 0.8	0.3	1.4	18 ± 0.8	560	234
4	2	1.5	1.6	0.7	1.1	14 ± 0.8	0.3	1.4	18 ± 0.8	560	234
8	2	1.5	1.6	0.7	1.1	19 ± 0.8	0.3	1.6	23 ± 1	910	378
8	2	1.5	1.6	0.7	1.1	19 ± 0.8	0.3	1.6	23 ± 1	910	378
10	2	1.5	1.6	0.7	1.2	21 ± 1	0.3	1.7	25.5 ± 1	1060	458
12	2	1.5	1.6	0.7	1.3	22 ± 1	0.3	1.7	26.5 ± 1	1190	513
16	2	1.5	1.6	0.7	1.4	24 ± 1	0.3	1.8	28.5 ± 1	1470	649
16	2	1.5	1.6	0.7	1.4	24 ± 1	0.3	1.8	28.5 ± 1	1470	649
24	2	1.5	1.6	0.7	1.8	30 ± 1.5	0.3	2.1	35.5 ± 1.5	2150	920
32	2	1.5	1.6	0.7	1.9	33 ± 1.5	0.4	2.2	39 ± 1.5	2750	1247
32	2	1.5	1.6	0.7	1.9	33 ± 1.5	0.4	2.2	39 ± 1.5	2750	1247
2	3	1.5	1.6	0.7	1.1	13 ± 0.8	0.3	1.4	17 ± 0.8	490	191

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Number of elements	No of cores in element	Cross section core, mm²	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Diameter Braid Wire, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
4	3	1.5	1.6	0.7	1.1	15.5 ± 0.8	0.3	1.4	19.5 ± 0.8	670	290
8	3	1.5	1.6	0.7	1.1	20.5 ± 1	0.3	1.7	25 ± 1	1150	515
12	3	1.5	1.6	0.7	1.3	24.5 ± 1	0.3	1.8	29 ± 1	1540	707
12	3	1.5	1.6	0.7	1.3	24.5 ± 1	0.3	1.8	29 ± 1	1540	707
16	3	1.5	1.6	0.7	1.4	26.5 ± 1	0.3	1.9	31.5 ± 1.5	1930	900
16	3	1.5	1.6	0.7	1.4	26.5 ± 1	0.3	1.9	31.5 ± 1.5	1930	900
24	3	1.5	1.6	0.7	1.8	33.5 ± 1.5	0.4	2.2	39.5 ± 1.5	2920	1364
24	3	1.5	1.6	0.7	1.8	33.5 ± 1.5	0.4	2.2	39.5 ± 1.5	2920	1364
4	2	2.5	2	0.7	1.1	16 ± 0.8	0.3	1.4	19.5 ± 0.8	680	308
4	2	2.5	2	0.7	1.1	16 ± 0.8	0.3	1.4	19.5 ± 0.8	680	308
5	2	2.5	2	0.7	1.1	17.5 ± 0.8	0.3	1.5	21.5 ± 1	810	370

Electrical values instrumentation cables

Type	Capacitance, approx. (nF/km)	Inductance, approx, (mH/km)	Resistance at 20°C, max. (Ohm/km)	L/R ratio, (microH/Ohm)
Unshielded pair 0,75 mm²	100	0,67	24,8	14,3
Unshielded triple 0,75 mm²	100	0,67	24,8	14,3
Unshielded pair 1,5 mm²	110	0,63	12,2	26,6
Unshielded triple 1,5 mm²	110	0,63	12,2	26,6
Unshielded pair 2,5 mm²	125	0,59	7,56	39,0
Unshielded triple 2,5 mm²	125	0,59	7,56	39,0

Ordering information

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
892606	RFOU(C) 2PAIR 0.75mm² S2/S6	GREY	Yes	7021528926064	1044421
892607	RFOU(C) 2PAIR 0.75mm² S2/S6	BLUE	Yes	7021528926071	1044422
892618	RFOU(C) 4PAIR 0.75mm² S2/S6	GREY	Yes	7021528926187	1044423
892619	RFOU(C) 4PAIR 0.75mm² S2/S6	BLUE	Yes	7021528926194	1044424
892630	RFOU(C) 8PAIR 0.75mm² S2/S6	GREY	Yes	7021528926309	1044428
892631	RFOU(C) 8PAIR 0.75mm² S2/S6	BLUE	Yes	7021528926316	1044429
892636	RFOU(C) 12PAIR 0.75mm² S2/S6	GREY	Yes	7021528926361	1044430
892637	RFOU(C) 12PAIR 0.75mm² S2/S6	BLUE	-	7021528926378	1044431
892642	RFOU(C) 16PAIR 0.75mm² S2/S6	GREY	Yes	7021528926422	1044433
892643	RFOU(C) 16PAIR 0.75mm² S2/S6	BLUE	Yes	7021528926439	1044432
892645	RFOU(C) 19PAIR 0.75mm² S2/S6	GREY	-	7021528926453	1044434
892648	RFOU(C) 24PAIR 0.75mm² S2/S6	GREY	Yes	7021528926484	1044438
892649	RFOU(C) 24PAIR 0.75mm² S2/S6	BLUE	Yes	7021528926491	1044437
892666	RFOU(C) 2TRIP 0.75mm² S2/S6	GREY	Yes	7021528926668	1044490
892667	RFOU(C) 2TRIP 0.75mm² S2/S6	BLUE	Yes	7021528926675	1044491
892678	RFOU(C) 4TRIP 0.75mm² S2/S6	GREY	-	7021528926781	1044492
892679	RFOU(C) 4TRIP 0.75mm² S2/S6	BLUE	-	7021528926798	1044493
892690	RFOU(C) 8TRIP 0.75mm² S2/S6	GREY	-	7021528926903	1044496
892691	RFOU(C) 8TRIP 0.75mm² S2/S6	BLUE	-	7021528926910	1044497
892696	RFOU(C) 12TRIP 0.75mm² S2/S6	GREY	-	7021528926965	1044499
892702	RFOU(C) 16TRIP 0.75mm² S2/S6	GREY	-	7021528927023	1044501
892708	RFOU(C) 24TRIP 0.75mm² S2/S6	GREY	-	7021528927085	1044507

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Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
892709	RFOU(C) 24TRIP 0.75mm² S2/S6	BLUE	-	7021528927092	1044508
892806	RFOU(C) 2PAIR 1.5mm² S2/S6	GREY	Yes	7021528928068	1044461
892807	RFOU(C) 2PAIR 1.5mm² S2/S6	BLUE	-	7021528928075	1044462
892818	RFOU(C) 4PAIR 1.5mm² S2/S6	GREY	Yes	7021528928181	1044463
892819	RFOU(C) 4PAIR 1.5mm² S2/S6	BLUE	-	7021528928198	1044464
892830	RFOU(C) 8PAIR 1.5mm² S2/S6	GREY	Yes	7021528928303	1044468
892831	RFOU(C) 8PAIR 1.5mm² S2/S6	BLUE	-	7021528928310	1044469
892834	RFOU(C) 10PAIR 1.5mm² S2/S6	GREY	-	7021528928341	-
892836	RFOU(C) 12PAIR 1.5mm² S2/S6	GREY	-	7021528928365	1044470
892842	RFOU(C) 16PAIR 1.5mm² S2/S6	GREY	Yes	7021528928426	1044472
892843	RFOU(C) 16PAIR 1.5mm² S2/S6	BLUE	-	7021528928433	1044473
892848	RFOU(C) 24PAIR 1.5mm² S2/S6	GREY	-	7021528928488	1044478
892854	RFOU(C) 32PAIR 1.5mm² S2/S6	GREY	-	7021528928549	-
892855	RFOU(C) 32PAIR 1.5mm² S2/S6	BLUE	-	7021528928556	-
892866	RFOU(C) 2TRIP 1.5mm² S2/S6	GREY	-	7021528928662	1044561
892878	RFOU(C) 4TRIP 1.5mm² S2/S6	GREY	-	7021528928785	1044563
892891	RFOU(C) 8TRIP 1.5mm² S2/S6	BLUE	-	7021528928914	-
892896	RFOU(C) 12TRIP 1.5mm² S2/S6	GREY	-	7021528928969	1044569
892897	RFOU(C) 12TRIP 1.5mm² S2/S6	BLUE	-	7021528928976	1044570
892902	RFOU(C) 16TRIP 1.5mm² S2/S6	GREY	-	7021528929027	1044571
892903	RFOU(C) 16TRIP 1.5mm² S2/S6	BLUE	-	7021528929034	1044572
892908	RFOU(C) 24TRIP 1.5mm² S2/S6	GREY	-	7021528929089	1044577
892909	RFOU(C) 24TRIP 1.5mm² S2/S6	BLUE	-	7021528929096	1044578
893018	RFOU(C) 4PAIR 2.5mm² S2/S6	GREY	-	7021528930184	-
893019	RFOU(C) 4PAIR 2.5mm² S2/S6	BLUE	-	7021528930191	-
893021	RFOU(C) 5PAIR 2.5mm² S2/S6	GREY	-	7021528930214	-

Installation recommendations

Minimum Bending Radius during Installation	Minimum Bending Radius Fixed Installed	Maximum Tensile Load During Installation	Minimum Installation Temperature
8 x D	6 x D	50 N /mm²	-20°C